

IN THE CLAIMS:

Please amend claims 1, 2, 51, 53, and 55. Please add claim 57-61.

This listing of claims will replace all prior versions, and listings of the claims in the application.

Listing of the claims

1. (Currently Amended) An isolated virus-like particle comprising an enveloped virus core ~~and said virus-like particle further comprising~~ a heterologous multiple membrane spanning protein.
2. (Currently Amended) An isolated virus-like particle comprising an enveloped virus core ~~and said virus-like particle further comprising~~ a heterologous multiple membrane spanning protein, wherein said protein is capable of binding with a ligand under conditions wherein said ligand would bind with an otherwise identical protein present on a cell membrane.
- 3-4. (Canceled)
5. (Previously Presented) The isolated virus-like particle of claim 1, wherein said enveloped virus core is derived from a retrovirus.
6. (Previously presented) The isolated virus-like particle of claim 1, wherein said enveloped virus core is selected from the group consisting of a murine leukemia virus, a human immunodeficiency virus, a rabies virus, a Rous sarcoma virus, and a vesicular stomatitis virus.
7. (Previously presented) The isolated virus-like particle of claim 1, wherein said multiple membrane spanning protein is selected from the group consisting of a G-protein coupled receptor, a transporter protein, and an ion channel protein.

8. (Previously presented) The isolated virus-like particle of claim 1, wherein said multiple membrane spanning protein is selected from the group consisting of CCR5, CXCR4, MCAT-1, CXCR2, CXCR3, mu-opoid receptor, and KCNH2 potassium channel protein.

9-50.(canceled)

51. (Currently Amended) An isolated virus-like particle comprising an enveloped virus core and ~~said virus-like particle further comprising~~ a heterologous multiple membrane spanning protein, wherein said multiple membrane spanning protein is a chemokine receptor.

52. (Previously Presented) The particle of claim 51, wherein said chemokine receptor is CXCR4 or CCR5.

53. (Currently Amended) An isolated virus-like particle comprising an enveloped virus core and ~~said virus-like particle further comprising~~ a heterologous multiple membrane spanning protein, wherein said multiple membrane spanning protein is an amino acid transporter protein.

54. (Previously Presented) The particle of claim 53 wherein said amino acid transporter protein is MCAT-1.

55. (Currently Amended) An isolated virus-like particle comprising an enveloped virus core and ~~said virus-like particle further comprising~~ a heterologous multiple membrane spanning protein, wherein said multiple membrane spanning protein is a virus receptor protein.

56. (Previously Presented) The particle of claim 55, wherein said virus receptor protein is CXCR4, CCR5, or MCAT-1.

57. (New) An isolated virus-like particle comprising an enveloped virus core and a heterologous G-protein coupled receptor protein.

58. (New) The particle of claim 57, wherein said G-protein coupled receptor protein is CCR5, CXCR4, CXCR2, CXCR3, or mu-opioid receptor.

60. (New) An isolated virus-like particle comprising an enveloped virus core and a heterologous ion-channel protein.

61. (New) The particle of claim 58, wherein said ion-channel is KCNH2.